Serial ATA PCI-M
Quick Installation Guide

Introducing the *Serial ATA PCI-M*

The *Serial ATA PCI-M* is an ultra high-speed dual channel Serial ATA controller for use in Mac computers. It achieves burst data transfer rates up to 150MB / s (1.5Gbps) and supports various brand of hard disk drives with capacities greater than 137GB.

Features and Benefits

- Compliant with Serial ATA Specification, rev. 1.0
- Compliant with PCI Specification, revision 2.3
- Provides two independent channels to support up to two Serial ATA drives
- Features independent 256-byte FIFOs per channel for host reads and writes
- Co-exists with on-board controller
- Can be used as the boot controller when a bootable hard disk drive is attached
- Supports 64 / 32-bit wide PCI slot at 33MHz

System Requirements

- G3 (blue & white) or later with one available PCI slot
- Mac OS X v10.1.x or later

Package Contents

- *Serial ATA PCI-M* board
- Serial ATA cable
- Serial ATA power cable
- This quick installation guide

Board Layout

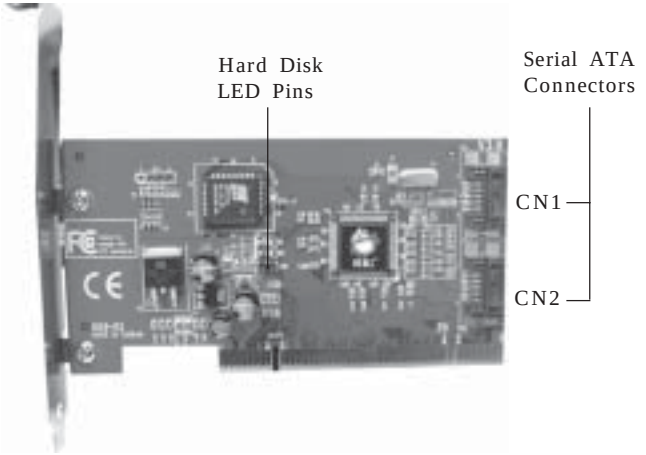

Figure 1. Layout

Hardware Installation

General instructions for installing the card are provided below. Since the design of computer cases and motherboards vary, refer to your computer's reference manual for further information, if needed.

Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer's case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

1. Turn OFF the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCI slot.
4. Carefully align the card to the selected PCI slot push the board down firmly, but gently, until it is well seated.

5. Replace the slot bracket's holding screw to secure the card.
6. Replace the computer cover and reconnect the power cord.

Now go to **Device Connection** to connect your Serial ATA hard disk drives.

Device Connection

The *Serial ATA PCI-M* is a dual channel Serial ATA controller that supports up to two Serial ATA hard disk drives. If you plan to use the second Serial ATA channel, you will need to purchase an additional Serial ATA power and data cable.

1. Install hard disk drive(s) in chassis.
2. Connect the Serial ATA hard disk drive to the system power supply using the *Serial ATA power cable*.
3. Connect one end of the *Serial ATA cable* to the hard disk drive.

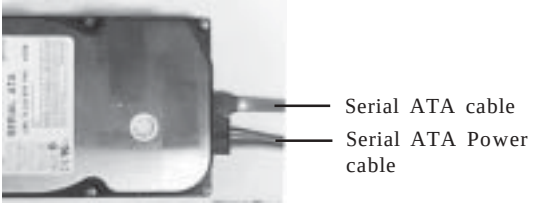

Figure 2. Hard disk drive connections

4. Attach the other end of the *Serial ATA cable* to the Serial ATA connector on the *Serial ATA PCI-M*.

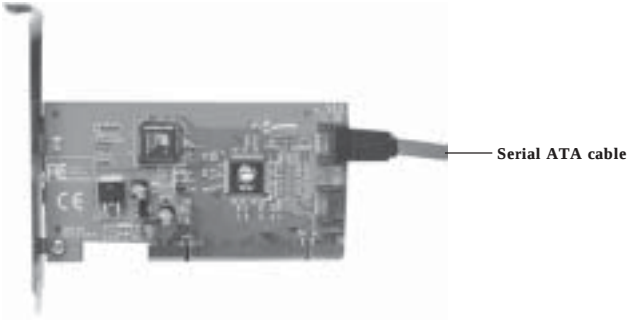

Figure 3. Connecting the Serial ATA cable

5. Follow the same instructions when connecting a second hard drive. Device connection is now complete.
6. Close the computer's case then go to **Software Installation** to complete the *Serial ATA PCI-M* installation.

Software Installation

Mac OSX (v10.2.x) or later drivers are built into the controller's firmware, no additional driver installation or firmware update are needed. Go to **Mac OS X Installation** on page 5 to complete the installation.

In order for the controller to work in **Mac OS X v10.1.x,** the firmware must be updated using the utility on the driver CD. Go to **Mac OS X (v10.1.x) Firmware Update** below.

Mac OS X (v10.1.x) Firmware Update

Before installing the update please follow these guidelines:

- Make sure no drives are connected to the *Serial ATA PCI-M*
- This utility can only be used in Mac OS X v10.1.x

- Close all applications before updating the firmware
- You must login as **Root** user to install this update

1. Insert the included software CD. Double click the **Drivers** icon that appears on the desktop.
2. Copy **SIIG3512101UpDriveR1.sit** onto the desktop, then double click it.
3. Double click **SIIG3512101UpDriveR1 Folder** that appears on the desktop.
4. Launch the utility by double clicking the file **Update.command**.
5. Press **C** and the **Return** key to continue. Otherwise, press **Q** and the **Return** key to quit.
6. Wait about 30 seconds, when finished close all open windows, then shutdown your system.

Mac OS X Installation

For a fresh OS X installation

Use this section when the controller will be the boot controller and Mac OS X will be installed on a blank or new hard disk drive.

1. Install the *Serial ATA PCI-M* and attached drives.
2. Boot up your computer with the Mac OS X CD-ROM. Press and hold letter **C** on the keyboard while your system is booting from the CD-ROM.
3. When Mac OS X finishes booting, click **Installer** in the menu bar.
4. Click **Open Disk Utility**.
5. Highlight the drive connected to the *Serial ATA PCI-M* and click **Partition**. Be aware that partitioning the drive will erase all information on the hard disk drive.

6. Click **Partition**, click **Partition** again to initialize the drive.
7. Close **Disk Utility** when finished and continue with Mac OS X installation.

For systems that have OS X installed

Use this section when Mac OS X is already installed and the controller will be used as an add-on controller.

1. Install the *Serial ATA PCI-M* and attached drives.
2. Boot up your system. When Mac OS finishes booting, double click **Mac OS X** drive icon on the desktop.

> **Note**: If the drive shows up on the desktop properly, you can choose not to follow steps 3-8.

3. Double click **Applications** folder.
4. Double click **Utilities** folder.
5. Double click **Disk Utility** icon.
6. Highlight the drive connected to the *Serial ATA PCI-M* and click **Partition**. **Important**: Partitioning the drive will erase all information on this hard disk drive.
7. Click **Partition**, click **Partition** again to initialize the drive.
8. Close **Disk Utility** when finished. The new drive should appear as **Untitled** on the desktop.

Troubleshooting

Important: When installing OS X from a boot CD, the system may not recognize the *Serial ATA PCI-M* as the boot controller. If this happens, turn the system off, wait several seconds, then turn the system back on and continue with the installation.

Technical Support and Warranty

QUESTIONS? SIIG's **Online Support** has answers! Simply visit our website at ***www.siig.com*** and click on **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and one of our technical support analysts will promptly respond.

A lifetime manufacturer warranty supplied with this product is offered by SIIG, Inc. Please see SIIG website for more warranty details. If you should happen to encounter any problems with this product, please follow the procedures below.

If it is within the store's return policy period, please return the product to the store where you purchased from.

If your purchase has passed the store's return policy period, please follow these steps to have the product repaired or replaced.

Step 1: Submit your RMA request.

Go to **www.siig.com**, click **Support**, then **RMA** to submit a request to SIIG RMA. If the product is determined to be defective, an RMA number will be issued. SIIG RMA department can also be reached at (510)413-5333.

Step 2: After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All software, cable(s) and any other accessories that came with the original package must be included.
- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.
- You are responsible for the cost of shipping the product to SIIG at the following address:

  SIIG, Inc.
  6078 Stewart Avenue
  Fremont, CA 94538
  RMA#: _____

- SIIG will ship the repaired or replaced product via Ground in the U.S and International Economy outside of the U.S at no cost to the customer.

About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading computer upgrade manufacturer of I / O connectivity products, including PCI & ISA serial and parallel ports, USB, Serial ATA & UltraATA controllers, FireWire (1394a / b), Networking, Sound Cards, and other accessories. SIIG is the premier one-stop source of upgrades.

SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High-quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, and e-commerce sites in the Americas and the UK, as well as through major distributors, system integrators, and VARs.

PRODUCT NAME
Serial ATA PCI-M

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

SIIG, Inc.
6078 Stewart Ave.
Fremont, CA 94538-3152

Serial ATA PCI-M is a trademark of SIIG, Inc.
SIIG and SIIG logo are registered trademarks of SIIG, Inc. Mac and Mac OS are registered trademarks of Apple Computer, Inc. Other names used in publication are for identification only and may be trademarks of their respective companies.

March, 2005 Copyright ©2005 by SIIG, Inc. All rights reserved.